International Workshop on Search-Based Software Engineering (IWoSBSE'15)

To be held in CENTERIS 2015 – International Conference on ENTERprise Information Systems
Vilamoura, Algarve, Portugal, 7-9 October 2015
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WORKSHOP OBJECTIVE
The growing field of Search-Based Software Engineering (SBSE) addresses optimization problems to build optimized software systems throughout all development stages. Planning, project management, design, testing, deployment, maintenance, etc., and quality attributes such as speed, cost, reliability, availability, flexibility, scalability, responsiveness, adaptation, maintainability, testing, etc., have high potential of optimization, specially due to the increasing complexity of software systems development, deployment and maintenance. This research domain reflects itself the wide and diverse applications of software itself. The huge space of options and decisions required throughout all software development stages and the variety of objectives at stake, originated the rise of the Search-Based Software Engineering research field.

Due to specific and highly customized software optimization goals, software engineering optimization is generally devoted to improving some objectives at the cost of others, providing the best trade-offs for system design or operation. Several modern tools are available to support Search-Based Software Engineering approaches. IWoSBSE'15 intends to foster a growing interest for Search-Based Software Engineering by gathering researchers with different backgrounds and perspectives on software engineering and optimization.

WORKSHOP TOPICS AND AREAS OF INTEREST (not limited to)
- Core principles of software engineering
- Software models optimization
- Prediction and optimization in software engineering
- Software engineering optimization theory and practice
- Optimization at design, source code, run time & platform levels
- Search-based software engineering tools
- Multi-objective optimization theory and algorithms
- Software requirements, design and testing optimization
- Software systems adaptive configuration
- Software systems performance evaluation
- Software systems multi-objective optimization
- Software systems many-objective optimization
- Evolutionary computing in software engineering optimization
- SOA, EAI and Cloud computing optimization challenges
- Automated vs manual software engineering optimization

SUBMISSIONS
We welcome full research papers, short papers, posters and practitioner papers on the workshop theme.
Submitted manuscripts must be written in English. Each manuscript should not exceed the maximum number of pages predefined for each submission type, considering the format available for download at the conference webpage.
Manuscript should be submitted electronically at the CENTERIS webpage until April 3, 2015.
Submitted papers will be reviewed on a double-blind review basis, and authors will be notified of the review process results by May 17, 2015. Authors of accepted papers can receive recommendations to revise their manuscript according to the reviewers’ comments and should submit the revised version until June 12, 2015.

IMPORTANT DATES
Deadline for paper submission: April 3, 2015
Notification of acceptance/rejection: May 17, 2015
Accepted full and short papers will be published in the conference proceedings (with ISSN).
Poster and practitioner papers will be published in the conference book of abstracts, industry and poster papers (with ISBN).
Authors of a selection of papers will be invited to enhance their manuscripts for inclusion in a book of chapters or in a journal.

WORKSHOP CHAIRS
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WORKSHOP SCIENTIFIC COMMITTEE
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